

ABSTRACT OF THE DISCLOSURE

The invention provides a method for allocating registers for various execution environments. Various arguments are passed when a program for unifying various execution environments is called, then the parameters are stored in an argument information set part created in a memory's area pointed to by a general-purpose register. Accordingly, the number of registers actually used for storing the passed arguments is adjusted to be no greater than the number of registers reserved for storing the passed arguments. The number of passed arguments specified for a common function is also suppressed to be no greater than the number of registers for storing the passed arguments. The memory utilization efficiency is thus improved while the program execution speed is prevented from decreasing.